## **RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	10/526,425
Source:	Patho
Date Processed by STIC:	3/11/05
	, ,

## ENTERED



PCT10

RAW SEQUENCE LISTING DATE: 03/14/2005
PATENT APPLICATION: US/10/526,425 TIME: 14:34:15

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\03142005\J526425.raw

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3 <110> APPLICANT: JAPAN SCIENCE AND TECHNOLOGY CORPORATION
              OKAZAKI, Tsuneko
              IKENO, Masashi
      6
              ITOU, Toshihide
              SUZUKI, Nobukata
      9 <120> TITLE OF INVENTION: Mammalian artificial chromosome
     11 <130> FILE REFERENCE: P0203102
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/526,425
C--> 13 <141> CURRENT FILING DATE: 2005-03-03
     13 <150> PRIOR APPLICATION NUMBER: JP P2002-258114
     14 <151> PRIOR FILING DATE: 2002-09-03
     16 <150> PRIOR APPLICATION NUMBER: JP P2002-338865
     17 <151> PRIOR FILING DATE: 2002-11-22
     19 <160> NUMBER OF SEQ ID NOS: 23
     21 <170> SOFTWARE: PatentIn version 3.1
     23 <210> SEQ ID NO: 1
     24 <211> LENGTH: 17
     25 <212> TYPE: DNA
     26 <213> ORGANISM: Homo sapiens
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     30 <222> LOCATION: (1)..(17)
     31 <223> OTHER INFORMATION: Human chromosome centromere region
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     35 <221> NAME/KEY: misc feature
     36 <222> LOCATION: (1)..(1)
     37 <223> OTHER INFORMATION: n stands for any base
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     63 <211> LENGTH: 17
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17

Input Set : A:\PTO.AMC.txt

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     69 <222> LOCATION: (1)..(17)
     70 <223> OTHER INFORMATION: Human chromosome 21 centromere region
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     74 <221> NAME/KEY: misc_feature
     75 <222> LOCATION: (1)..(1)
     76 <223> OTHER INFORMATION: n stands for any base
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     90 <222> LOCATION: (1)..(1868)
     91 <223> OTHER INFORMATION: Human chromosome 21 centromere region
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     97 actcatagag ttgaagattg cctttcatag agcaggtttg aaacactctt tctggagtat
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     101 aaaacqaqac agaaqqattc tcaqaaacaa qtttqtqatq tqtqtactca qctaacaqaq
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     103 tggaaccttt ctttttacag agcagctttg aaactctatt tttgtggatt ctgcaaattg
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     105 atatttagat tgctttaacg atatcgttgg aaaagggaat atcgtcatac aaaatctaga
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     107 cagaagcatt ctcacaaact tctttgtgat gtgtgtcctc aactaacaga gttgaacctt
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     109 tottttgatg cagcagtttg gaaacactct ttttgtagaa actgtaagtg gatatttgga
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     111 tagetetaac gatttegttg gaaacgggaa tateateate taaaatetag acagaageac
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     113 tattagaaac tacttggtga tatctgcatt caagtcacag agttgaacat tcccttactt
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     115 tgagcacgtt tgaaacactc ttttggaaga atctggaagt ggacatttgg agcgctttga
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     119 cttgttcgtg atgtgtgtac tcaactaaaa gagttgaacc tttctattga tagagcagtt
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     131 ctaacagagt tgaactttgc cattgataga gagcagtttt gaaacactct ttttgtggaa
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     133 tetgeaagtg gatatttgga tagettggag gatttegttg gaagegggaa tteaaataaa
     135 aggtagacag cagcattete agaaatttet ttetgatgae tgcatteaac teatagagtt
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     137 qaacatteee ttteatagag caggtttqaa acactettte tggagtatet ggatgtggae
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     139 atttqqaqcq ctttgatgcc tatgqtqaaa aagtaaatat cttcccataa aaacgagaca
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     143 ttttgatgca gcagtttgga aacactcttt ttgtagaaac tgtaagtgga tatttggata
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     147 tcagaaacta ctttgtgata tctgcattca agtcacagag ttgaacattc gctttcttag
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Input Set : A:\PTO.AMC.txt

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                                                                              1860
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     161 <211> LENGTH: 8286
     162 <212> TYPE: DNA
     163 <213> ORGANISM: Artificial Sequence
     165 <220> FEATURE:
     166 <223> OTHER INFORMATION: Description of Artificial Sequence: Probe for an arm region
of YAC
     168 <400> SEQUENCE: 4
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     173 caccytcacc ctggatgctg taggcatagg cttggttatg ccggtactgc cgggcctctt
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     175 gegggatate gtecatteeg acageatege cagteactat ggegtgetge tagegetata
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     177 tqcqttqatq caatttctat gcgcacccgt tctcggagca ctgtccgacc gctttggccg
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     179 ccgcccagtc ctgctcgctt cgctacttgg agccactatc gactacgcga tcatggcgac
     181 cacaccegte etgtggatea attecettta gtataaattt cactetgaac catettggaa
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     183 ggaccggtaa ttatttcaaa tctctttttc aattgtatat gtgttatgtt atgtagtata
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     185 ctctttcttc aacaattaaa tactctcggt agccaagttg gtttaaggcg caagacttta
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     187 atttatcact acggaattcc gtaatcttga gatcgggcgt tcgatcgccc cgggagattt
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     189 ttttqttttt tatqtcttcc attcacttcc cagacttgca agttgaaata tttctttcaa
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     191 qqqaattqat cetetacgee qgaegcateg tggeeggeat caeeggegee acaggtgegg
    193 ttqctqqcqc ctatatcgcc gacatcaccg atggggaaga tcgggctcgc cacttcgggc
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    195 tcatgagege ttgtttegge gtgggtatgg tggcaggece egtggeeggg ggactgttgg
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     197 gegecatete ettgeatgea ceatteettg eggeggeggt geteaaegge eteaaectae
     199 tactqqqctq cttcctaatg caggagtcgc ataagggaga gcgtcgaccg atgcccttga
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     201 gagcetteaa eecagteage teetteeggt gggegegggg catgactate gtegeegeac
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    205 ttttcggcga ggaccgcttt cgctggagcg cgacgatgat cggcctgtcg cttgcggtat
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    215 agetteaagg ategetegeg getettacea geetaactte gateaetgga eegetgateg
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    223 caatcaattc ttgcggagaa ctgtgaatgc gcaaaccaac ccttggcaga acatatccat
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    229 taatctccqa acaqaaqqaa qaacqaaqqa aggaqcacag acttagattg gtatatatac
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    231 gcatatgtag tgttgaagaa acatgaaatt gcccagtatt cttaacccaa ctgcacagaa
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    237 acttgtgtgc ttcattggat gttcgtacca ccaaggaatt actggagtta gttgaagcat
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    239 taggtcccaa aatttgttta ctaaaaacac atgtggatat cttgactgat ttttccatgg
    241 agggcacagt taagccgcta aaggcattat ccgccaagta caattttta ctcttcgaag
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Input Set : A:\PTO.AMC.txt

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					tcaaagagac		2520
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	•				ctctacagga		2640
					taaggtagag		2700
					ccagcaaaac		2760
					agcttcaatt		2820
					aaaaaaaatt		2880
					tgatcgtgct		2940
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					cctgagcaac		3060
					agtcagcgcc		3120
					gtggaacacc		3180
					ggtcccgccg		3240
					gttcatcatc		3300
					ccatgaacag		3360
					ccttaacatg		3420
					gctggacgcg		3480
					ttaccgcagc		3540
					aacctctgac		3600
					agcagacaag		3660
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					accgcatcag		3840
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					ataacgcagg		3960
							4020
					ccgcgttgct gctcaagtca		4080
							4140
					gaageteeet		4200
					ttetecette		4260
					tgtaggtcgt		4320
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					tggcagcagc		4440
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					tgctgaagcc		4560
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					gttaagggat		4680
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Input Set : A:\PTO.AMC.txt

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			gcggcgaccg				5400
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			accgctgttg				5520
	_		ttttactttc				5580
			gggaataagg				5640
			aagcatttat				5700
			taaacaaata				5760
			cattattatc				5820
			agaattaatt				5880
			ttgagcacgt				5940
			aatttcacag				6000
			gcagaatgtg				6060
			aagagaacaa				6120
			aatagttcag				6180
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			tggcaagaat				6300
			gactgcaaca				6360
			gattcagaag				6420
			ggaaggcaag				6480
			aatgttggtg				6540
			gagacaaatg				6600
			taggttatta				6660
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			acttttacca				6840
			acgctacaat				6900
			cttagtatat				6960
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			gcagatagat				7200
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			tcactatttt				7320
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			gtaaaactgt				7500
			cctattttct				7560
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			atcataaaca				7680
			ttaaattttt				7740
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	_		-				7920
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							8040
			tatggtgaga				8100
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439	gilalaagt	caatagttaa	gtttgatatt	ryarryrada	acaccycadt	acactiguat	0100

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\03142005\J526425.raw

## Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 1,6,7,8,9,11,12,17 Seq#:2; N Pos. 1 VERIFICATION SUMMARY

DATE: 03/14/2005

PATENT APPLICATION: US/10/526,425

TIME: 14:34:16

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\03142005\J526425.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:59 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0 L:80 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0